

PHILADELPHIA  
COLLEGE OF OSTEOPATHY

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ANNOUNCEMENT

1911 - 1912











PHILADELPHIA  
COLLEGE and  
INFIRMARY



of  
**OSTEOPATHY**

13<sup>th</sup> ANNUAL  
ANNOUNCEMENT  
SEASON 1911-12



Philadelphia College  
and  
Infirmary of Osteopathy

Philadelphia

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PHILADELPHIA COLLEGE  
AND  
INFIRMARY OF OSTEOPATHY

# Philadelphia College and Infirmary of Osteopathy



## Thirteenth Annual Announcement

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Season 1911-12



## Special Notice

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THE College Building is open daily throughout the year, except on Sundays and holidays, from 8 A. M. until 5 P. M., for the registration of students and the transaction of other necessary business.

Students will save time and unnecessary expense by going directly to the College, 1715 North Broad Street, on their arrival in the city, to be at once directed to suitable boarding places.

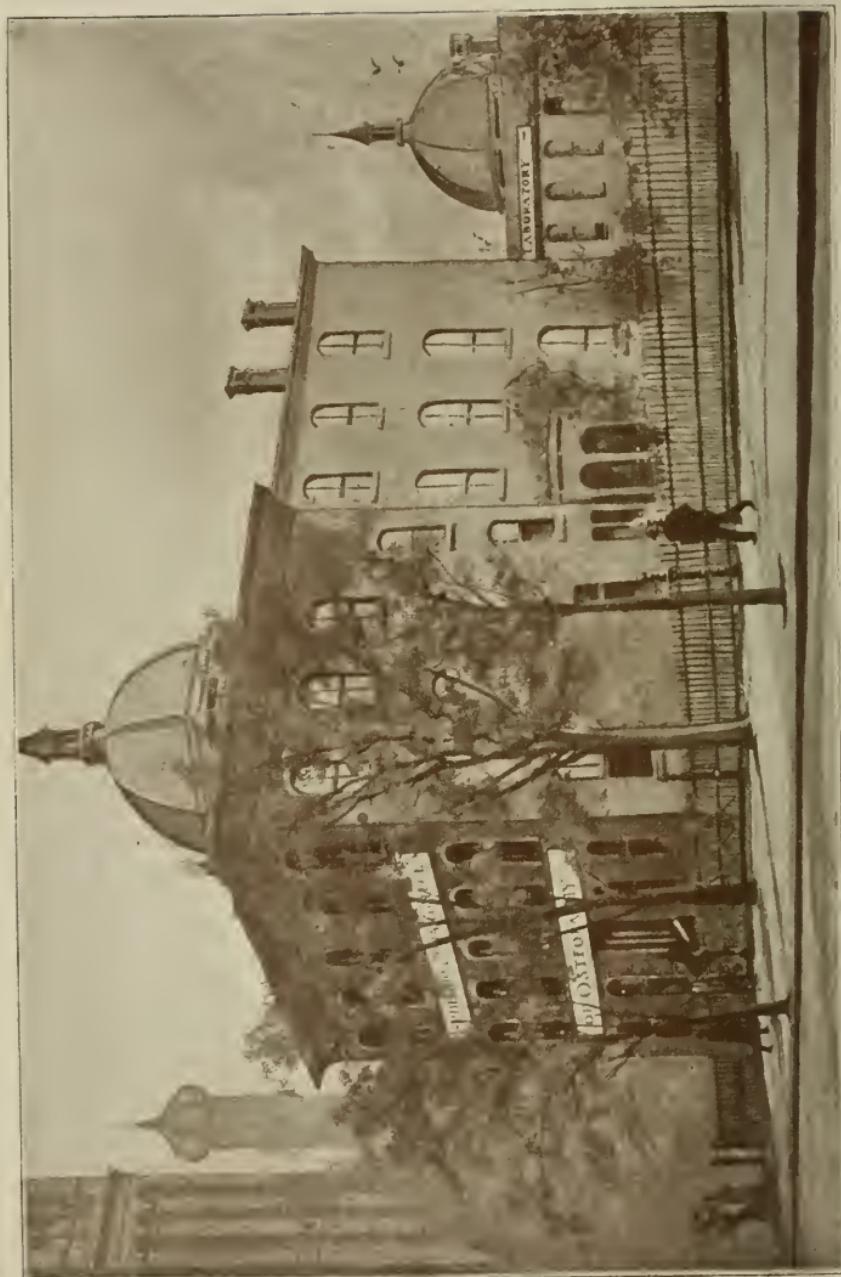
Early registration of all students is advisable in order to facilitate enrollment, assignment to classes, and the prompt beginning of the college schedule.

Students should come prepared to pay their tuition at the time of registration.

If a personal interview with the Dean or Registrar is not convenient, written communications will receive prompt attention. They should be addressed to J. IVAN DUFUR, D. O., Registrar, Philadelphia College of Osteopathy, 1715 North Broad Street, Philadelphia.







## Board of Trustees

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## Faculty

NOTE:—The Philadelphia College of Osteopathy points with pride to the fact that all members of its Faculty are active in the practice of osteopathy. This insures to the student, aside from the theoretical text-book knowledge, the greater practical knowledge and detailed experiences which come only to those engaged in daily private practice.

ARTHUR M. FLACK, D. O.

\*Dean of the Faculty, Professor of Pathology, Bacteriology, and Applied Anatomy.  
3601 Spring Garden Street.

CHARLES J. MUTTART, D. O.

Professor of Diagnosis and Technique and of Nervous Diseases.  
Flanders Building, 15th and Walnut Streets.

D. S. BROWN PENNOCK, D. O., M. D.

Professor of Physiology, Obstetrics and Surgery.  
Land Title Building, Broad and Chestnut Streets.

J. IVAN DUFUR, D. O.

Professor of Clinical Osteopathy, Principles of Osteopathy, Symptomatology and Practice and of Pediatrics. Chief of Hospital Staff.

Flanders Building, 15th and Walnut Streets.

LILLIAN L. BENTLEY, D. O.

Professor of Hygiene and Dietetics.  
1533 Chestnut Street.

EVA M. BLAKE, M. D., D. O.

Professor of Gynecology.  
Wayne and Maplewood Avenues.

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\*Names are arranged in the Faculty list, with the exception of the Dean, on the basis of seniority of appointment. The transaction of the business affairs of the college, the registration of students, collection of fees, etc., are in charge of J. IVAN DUFUR, D. O. Registrar, 1715 N. Broad Street.

EUGENE M. COFFEE, D. O.

Professor of Anatomy.

Mint Arcade Building.

RAYMOND W. BAILEY, D. O.

Professor of Chemistry, Toxicology and Medical Jurisprudence.

402 Rothschild Building.

W. S. NICHOLL, D. O.

Associate Professor of Minor Surgery, Skin and Venereal Diseases and Assistant in Physiology.

Mint Arcade Building.

E. H. FRITSCHE, D. O.

Associate Professor of Chemistry.

706 North 19th Street.

FRED'K. A. BEALE, D. O.

Professor of Histology.

Flanders Building, 15th and Walnut Streets.

A. F. WATCH, PH. D. (Sweden)

Professor of Ophthalmology.

1421 Chestnut Street.

CHARLES L. HOOPES, B. Sc., D. O.

Assistant Professor of Chemistry.

1524 Chestnut Street.

CECELIA G. CURRAN, D. O.

Assistant in Gynecology.

Mint Arcade Building.

THOMAS H. NICHOLL, D. O.

Demonstrator in Dissection.

402 Rothschild Building.

# Staff of the Osteopathic Hospital of Philadelphia

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## CHIEF OF STAFF

J. IVAN DUFUR, D. O.

## NEUROLOGISTS

J. IVAN DUFUR, D. O.

CHARLES J. MUTTART, D. O.

## OPHTHALMOLOGY, LARYNGOLOGY, AND OTOLOGY

A. F. WATCH, PH. D. (Sweden)

WM. S. NICHOLL, D. O.

## GYNECOLOGY

eva M. BLAKE, M. D., D. O.

CECELIA G. CURRAN, D. O.

## DERMATOLOGIST

W. S. NICHOLL, D. O.

## PATHOLOGIST

ARTHUR M. FLACK, D. O.

## URINALYSIST

E. H. FRITSCHE, D. O.

OBSTETRICIAN

D. S. B. PENNOCK, D. O., M. D.

SURGERY

D. S. B. PENNOCK, D. O., M. D.

W. S. NICHOLL, D. O.

STAFF PHYSICIANS

THOS. W. ELLIS, D. O.

W. F. HAWES, D. O.

I. SYLVESTER HART, D. O.

CLARENCE KENDERDINE, D. O.

## Committees of the Faculty

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CHARLES J. MUTTART

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ARTHUR M. FLACK

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WM. S. NICHOLL, Chairman  
J. IVAN DUFUR

### SOCIAL COMMITTEE

CHAS. L. HOOPES, Chairman  
WM. S. NICHOLL

## Organization

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The Philadelphia College and Infirmary of Osteopathy was organized, as its name indicates, for the twofold purpose of establishing a center for Osteopathic teaching in the Eastern United States, and of providing an Infirmary where poor people can obtain Osteopathic treatment.

While the Corporation enjoys some of the advantages of a business charter, yet it has been the policy of the Directors for some years to apply all the net earnings to the purchase of additional equipment; no part of the profit is paid out to the stockholders in dividends. The pursuit of this policy enables the College to offer the student the advantage of the most advanced apparatus and equipment in every department of the College and has been so generally successful that the College has for the fourth time outgrown its quarters, and has been forced to seek larger accommodations for its increasing number of students, as well as for the demands made on its clinical and Infirmary service. In short, in location, equipment, curriculum, in teaching material, in opportunities for practical work, the Philadelphia College is to-day the chief osteopathic institution in America. It draws clinical material from Philadelphia's million and a half people. Some of the foremost practicing Osteopaths in America are on its Faculty, and the practical work of these men in the clinics is accessible to all students.

## Announcement

The Board of Trustees reserves the right to make such changes in the curriculum, corps of instructors, hours of instruction, or general rules and regulations which may at any time be deemed necessary. It is needless to say, however, that the convenience and wishes of the students in

regard to such changes will always receive the fullest consideration.

## Attractions, Conveniences and Location

As a medical centre, Philadelphia is notable; as a field for intellectual interests of all kinds—scientific and artistic—its repute is world-wide. Its institutes, galleries, libraries, schools, hospitals, museums, theatres and opera houses are among the first in the land; its opera and orchestral concerts provide the music lover with an almost continuous opportunity in season of gratifying his tastes; the Pennsylvania Academy of Fine Arts and the Wilstach Gallery in Memorial Hall, Fairmount Park, together with numerous exhibitions elsewhere, offer the lover of art a means of instructing and indulging his taste; from September to the end of the season the 20 theatres or so of the city are open; finally, the lover of out-of-doors can reach Fairmount Park (4,000 acres) from any point in the neighborhood of the College in twenty minutes.

The college is situated in immediate proximity to all these activities, within easy reach of the clinics, libraries, theatres and shopping centres, museums, art galleries, churches of all denominations, etc., etc. It is on a beautiful and spacious boulevard in the midst of a populous home section; and as Philadelphia is known throughout the length and breadth of the land as "The City of Homes," excellent board and lodging in private families at reasonable prices are assured our students. Board can be had at three and a half dollars and upwards. Lower rates are obtainable by clubs of students.

Of course, the cost of living in Philadelphia, as in other cities, is higher than in rural communities; but this is at least partially offset by the greater opportunity that a city of this size offers a student of finding employment that will, in part or whole, defray his expenses. Some of the most successful graduates of the school are those who worked their way through College; several of our best students at present are meeting all their expenses by funds derived from outside employment.

## Incidental Expenses

Books cost about \$20.00 a year; if purchased second-hand, even less.

## Athletics

The Philadelphia College offers excellent facilities for the usual sports, and is especially fortunate in having among its student body many athletes of considerable reputation.

The Athletic Association is a healthy, active body, which has for several years entered a Track Relay Team in the National Intercollegiate Races held annually on Franklin Field, the University of Pennsylvania Athletic Arena.

The Athletic Director, Mr. Charles A. Furey, has a national reputation in athletics, having taken part in many field and track meets in competition with America's foremost athletes. He was chosen Eastern representative for the National Athletic meet held in Chicago last year. Basket ball plays a prominent part in athletics, also. The team forms a part of the Intercollegiate League in association with teams representing the various medical, dental and pharmaceutical colleges. Base ball comes in for its usual attention and in this respect the team always makes a good showing. As many of the students are college graduates, there usually are a number on the base ball team who have played on the large college teams. While education is most essential and the student work is not neglected, the aim is to encourage athletics, realizing the need of a wholesome physical life.

## Alumni Association

This Association was established with a view to promote the prosperity and extend the influence of the Alumni and their Alma Mater, and to encourage a high standard of Osteopathic education and practice. The annual reunion is held on the evening following Commencement. The membership includes all the graduates of the College.

## Society, Sorority and Fraternities

### Neuron Society

The Neuron Society is an organization of the students and graduates of the P. C. I. O. It was organized February 24th, 1902. The objects of the society are to advance the welfare of the student body and to establish a bond of fellowship between the students and graduates, whereby the success of the College may be furthered.

Monthly social and literary meetings are held, and a public address is given before the Society by some prominent speaker during Commencement week. The Society is a strong factor for good in the life of the student, and an active membership therein is highly regarded by the Faculty.

During the past year the Society has been actively engaged in raising a special fund to be used in purchasing further equipment for the Osteopathic Hospital.

### Phi Omicron Gamma Fraternity

#### ALPHA CHAPTER.

Membership in this fraternity is made up of men selected from the undergraduates, Faculty and Alumni of the Philadelphia College of Osteopathy.

Its objects are to promote an intimate relationship among the students and Alumni, to maintain a high standard of scholarship, and to encourage business and social intercourse for the mutual benefit of its members.

It is the aim of the members to help each other in their studies, and each year among its numbers are to be found those who stand highest in their classes.

Social events are given through the College year, and a lecturer is usually secured to talk on some subject of especial interest to the Osteopath at these gatherings.

### Kappa Phi Delta Sorority

The Kappa Phi Delta Sorority of the Philadelphia College of Osteopathy was organized in 1906. It is a se-

cret society of limited membership, the members being the women students and graduates of the Philadelphia College.

The objects of the Association are: Scientific research and study; the discussing of important Osteopathic points, together with interesting talks from Osteopathic lecturers, and promotion of the social spirit among its members.

## The Iota Tau Sigma Fraternity

### DELTA CHAPTER.

This chapter is one of four chapters of a rapidly growing Osteopathic Fraternity.

Iota Tau Sigma is the oldest Greek letter Osteopathic Fraternity and the only one that is legally chartered and has more than one chapter. It numbers among its members many of the leading men of the Osteopathic profession throughout the country, and has representatives on the faculties of all the Osteopathic Colleges.

Delta Chapter has fully established itself at the P. C. I. O. and its social, dramatic and educational features have always been a welcome element in the lives of the members.

The chapter has apartments in the city and the men plan to make the ensuing year a pleasant and profitable one.

## Conditions of Entrance, Matriculation, Graduation, Etc.

### Requirements for Admission

The College is co-educational. Candidates for admission to the first year must present evidence of good moral character, good health and studious habits.

Credentials from a high school, reputable academy, normal school, a teacher's life certificate, a bachelor's degree, from a college or university, school of technology,

will be accepted in whole or in part as the value of the credential warrants, or a student will be matriculated conditionally on three years' satisfactory work at a high school, with the understanding that the deficiency shall be made good before entering the second year's work in this institution.

### **Advanced Standing**

Students coming to the Philadelphia College from other institutions of learning, and seeking advanced standing will receive it on the following conditions:

1. One year of advanced standing will be allowed for students graduated from a college or university accredited by the Board of Regents of New York State, as maintaining one year of satisfactory work in medicine.
2. Students of accredited osteopathic or medical colleges will receive advanced standing in full or in part proportionate to the time for which the school is accredited by the Board of Regents of New York State.

### **New York State Registration**

This school is thus far the only school of Osteopathy which will fully meet not only the requirements of the laws governing the practice of Osteopathy in New York and States other than New York, but it is at present the only school that meets the requirements prescribed by the Board of Regents of New York State for the registration of Osteopathic schools and colleges.

By reason of this high educational standing, graduates of the Philadelphia College of Osteopathy are the only ones who are eligible to take the examination to practice Osteopathy in New York State.

### **Registration**

Students will not be admitted to any class work until they have made arrangements at the Registrar's office, paid their tuition, and received their enrollment card. No student is eligible to any final examination whose fees are in arrears.

## Examinations in College

Examinations are held at the close of each semester. Special tests are given from time to time during the term by the professor in charge of the subject.

No student will be permitted to enter upon second-year work who has failed to meet the requirements in anatomy of the first year, or to enter upon third-year work with any failures in anatomy, physiology or Osteopathic subjects.

A student failing in three subjects of his course in the final examinations must repeat the entire semester's work. One failing in a fewer number must pass off the deficient subjects within one month from the date of opening of the succeeding semester, or repeat them in class.

When a senior fails to pass his examination in applied anatomy, gynecology, obstetrics, nervous diseases, or clinical Osteopathy and practice, he shall be granted one re-examination. Should he again fail, his diploma will be withheld until he shall have had further class instruction in the subject for a period of ten weeks and passed the necessary examinations.

The final examinations of the graduating class are completed ten days before date of Commencement.

## Requirements for Graduation

In order to receive a diploma, a candidate must have attended the full course of lectures and demonstrations and passed satisfactory examinations in all branches of the curriculum of this College; must have been present 80 per cent. of the class hours of each subject in each semester; must have received the test vote of the Faculty; must have attended an Osteopathic College four separate years of eight months each, the last in this College, (except in cases of admission to advanced standing); must have arranged for all tuition and other fees; and must be present in person at Commencement.

The Board of Trustees reserves the right to dismiss any student from the College at any time for mental incapacity, for unfitness for the profession, or for disreput-

able conduct; or to withhold his diploma for cause. In case of such action unearned tuition will always be refunded.

### Conduct

Students shall observe such rules of decorum and such orderly conduct in the lecture rooms, laboratories and halls of the College as would be expected of men and women of character.

The failure of a student in this respect would indicate a lack of fitness for a physician's relations with his fellows, and would be deemed a sufficient cause for dismissal from the College.

### Degree Conferred

Upon the completion of the course of study and required attendance as prescribed by the rules, the College confers the degree of Doctor of Osteopathy (D. O.) and presents its diploma duly signed by officers of the Trustees and members of the Faculty, and attested by the Corporate Seal of the Institution.

### Annual Limitation of Rules

All of the foregoing information and rules, including the rules, etc., regarding fees, relate to the present session only; but they apply to all students, regardless of the time of original matriculation in this College.

### Tuition

A matriculation fee of five dollars (\$5.00) is required of each student when his or her application is accepted.

The tuition fee is one hundred and fifty dollars (\$150.00) per year of eight months, payable in advance; or, by special arrangement, a payment of seventy-five dollars (\$75.00) at the opening of each semester will be accepted.

An additional charge of \$1.50 per part will be made for material in general dissection.

A charge is made for the material used in the course in Operative Surgery.

In case of death or disability, the unearned tuition of the student will be refunded, as provided for by the rules of the College.

A graduation fee of \$10.00 is charged each student at the time the diploma is granted.

## Curriculum

The course of study graded progressively covers four years of eight months each.

### First Semester:

FIRST YEAR.	Hours per week.
Anatomy Lectures .....	5
Dissection (16 weeks) .....	6
Physics and Chemistry (General) .....	3
Laboratory .....	4
Biology and Histology Lectures .....	3
Laboratory .....	4
Personal Hygiene .....	1
History of Osteopathy .....	1

### Second Semester:

Anatomy Lectures and Recitations .....	5
Chemistry Organic .....	4
Histology Lectures and Lab. (8 weeks) .....	3
Embryology (8 weeks) .....	3
Physiology .....	3
History of Osteopathy .....	1
Emergencies .....	1
Toxicology .....	3
Personal Hygiene .....	1

## SECOND YEAR.

### First Semester:

Anatomy of the Nervous System .....	5
Physiological Chemistry Lectures and Lab..	4
Physiology—Didactic and Experimental .....	2
Principles of Osteopathy .....	3
General Pathology .....	5
Bacteriology and Hematology .....	2
Dissection .....	6

Second Semester:	Hours per week.
Anatomy, Regional .....	5
Physiology of the Nervous System .....	3
Pathology, Lectures and Laboratory .....	5
Principles of Osteopathy .....	2
Physiological Chem. and Urinalysis .....	4
Clinical Demonstration .....	3
Minor Surgery .....	1
Dissection .....	6

### THIRD YEAR.

#### First Semester:

Applied Therapeutics .....	3
Obstetric Lectures and Demonstrations .....	2
Nervous and Mental Diseases .....	3
Gynecology .....	2
Symptomatology and Practice of Osteopathy	5
Gynecological Clinic .....	2
Minor Surgery .....	1
General Surgery .....	2
Dietetics .....	1
Pediatrics .....	1
Physical Diagnosis .....	1
General Osteopathic Clinic .....	3
Clinical Practice .....	10
Osteopathic Diagnosis and Technique .....	1

#### Second Semester:

Applied Therapeutics .....	3
Obstetrics, Lectures and Demonstration .....	2
Nervous and Mental Diseases .....	3
General Surgery .....	2
Symptomatology and Practice of Osteopathy	5
Dietetics .....	1
Gynecological Clinic .....	2
Physical Diagnosis .....	1
Diagnosis and Technique .....	1
Gynecology Lecture .....	2
Medical Jurisprudence .....	1
General Osteopathic Clinic .....	3
Clinical Practice .....	10

FOURTH YEAR.

	Hours per week.
<b>First Semester:</b>	
Dermatology and Venereal Diseases .....	1
Jurisprudence .....	1
Clinical Osteopathy .....	3
Physical Diagnosis .....	1
Osteopathic Technique .....	2
Clinics .....	10
Osteopathic Therapeutics .....	2
Mental Diseases .....	1
Public Hygiene and Sanitary Chemistry .....	1
Surgery Operative (10 weeks) .....	2
Surgery Clinic .....	1
Orthopedic .....	1
Gynecology .....	2
Clinic .....	1
Obstetrics, Lectures and Bedside Work .....	2
Laryngology, Otology, Rhinology .....	1
Ophthalmology .....	1
<b>Second Semester:</b>	
Jurisprudence .....	1
Clinical Osteopathy .....	3
Physical Diagnosis .....	1
Osteopathic Technique .....	2
Clinics .....	10
Osteopathic Therapeutics .....	2
Mental Diseases .....	1
Surgery .....	2
Surgical Clinic .....	1
Orthopedic Clinic .....	1
Gynecology .....	2
Clinic .....	1
Obstetrics, Lectures and Bedside Work .....	2
Laryngology, Otology, Rhinology .....	1
Ophthalmology .....	1

# Courses and Departments of Study

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## Department of Anatomy

EUGENE M. COFFEE, D. O., Professor.

ARTHUR M. FLACK, D. O., Professor.

FREDERICK A. BEALE, D. O., Professor of Histology.

THOS. H. NICHOLL, D. O., Demonstrator in Dissection.

In Descriptive Anatomy the student practically lays the foundation for the application of Osteopathy and all further study of the human organism. Work thoroughly comprehending all parts, organs and functions of the human body is pursued in the following order:

1. Osteology.
2. Syndesmology.
3. Myology.
4. Neurology.
5. Angiology.
6. Lymphatics.

## Visceral Anatomy

The subjects included in this course are:

1. Digestive Tract and its Accessory Organs.
2. Organs of Voice and Respiration.
3. Heart and Circulatory Vessels of the Thoracic and Abdominal Cavities.
4. Lymphatics.
5. Urinary Organs.
6. Male and Female Generative Organs.

By lectures, quizzes and written tests, the development, structure, dimensions, weight, relations, blood and nerve supply of each organ are clearly demonstrated and fixed in the mind of the student.

## Nervous System

Under this head are included :

1. Organs of Special Sense: Sight, hearing, touch, taste, smell.
2. Brain and Spinal Cord.
3. Cranial Nerves, the Spinal Nerves.
4. Sympathetic System.

This course is given in conjunction with the one in Physiology and affords a splendid opportunity of review for advanced work by those preparing as specialists.

## Regional Anatomy

This course in Anatomy is given in the first semester of the second year. In it the cadaver is studied with a view to its division into regions and their structure. The body is examined in the following order :

1. Arm.
2. Leg.
3. Perineum.
4. Abdomen and Pelvis.
5. Thorax.
6. Back.
7. Head.
8. Neck.
9. Ear.
10. Eye.

## Applied Anatomy

In this course, given through the third year, the purpose is to apply the student's knowledge to the signs, cause and treatment of disease. The study of the cadaver is taken up in segments, each vertebra representing a segment. The abnormal condition of each segment as an etiological factor in disease is illustrated by dissection, by clinical cases which demonstrate the cause, and from skeletons, manikins, charts and models.

## Equipment

The Department is abundantly supplied with charts, models, cuts, drawings and skeletons (some articulated; some showing ligaments) with which to demonstrate any anatomical point. We would call special attention to a life-size imported French papier mache manikin which is

used in Regional, Visceal and Descriptive work, and which is so made that every part is removable and every named artery, vein and nerve demonstrable. This manikin makes the Anatomical Department, without doubt, the best equipped in the East.

### **Dissection—The Harvey School of Anatomy**

The Harvey School of Anatomy is a regularly chartered institution for the study of Practical Anatomy, is housed in one of the College buildings, and has an equipment which is of the very latest in design and sanitary provisions.

It affords the students excellent facilities for dissection, both general and special. The work is practical and thorough. Each student is required to dissect a lateral half of a cadaver in the Freshman year and also in the Sophomore year under the direction of a competent prosector, and the procedure is harmonized with the daily lectures in Regional Anatomy, so that each point is firmly impressed upon the mind of the student.

Special dissections are made to show various anatomical lesions, and the relation of these lesions to disease in distant tissues is thoroughly discussed.

Abundant dissecting material is obtained by the Harvey School of Anatomy from the State Anatomical Board, and is so prepared that the more objectionable phases of the work are eliminated.

### **Histology and Biology**

**FRED'K. A. BEALE, D. O., Professor.**

#### **MICROSCOPIC ANATOMY.**

The fundamental facts of Histology are presented in as clear and concise a manner as possible, and theories are advanced only to simplify the facts and aid the memory.

The subject is taught from lectures and text-books and especial stress is laid on laboratory study. The student is taught the development of the cell—how tissues and organs are formed.

The course includes the microscopic study of the tissues, circulatory and lymphatic systems, digestive tract, organs of respiration, urinary apparatus, the skin, male and female organs of reproduction, spinal cord, eye and ear.

The study is made interesting by many blackboard drawings and original sketches, as a thorough knowledge of the minute structures of the body is essential to an understanding of Physiology and Pathology.

#### GENERAL BIOLOGY.

This course is given as a general introduction for microscopy and histology and lays the foundation for laboratory work. It is made practical as a preliminary to Histology and as a fitting preparation for Anatomy and Physiology. It extends through the four months of one semester.

The student first learns the use, manipulation and care of the microscope.

First Month.—Study of simple vegetable cells and structure, such as may be found in sputum, urine, etc.

Second Month.—The trichina, oyster, fly, mosquito, spider, etc., in their relation to health and disease.

Third Month.—The parasites that infest the human body.

Fourth Month.—Cytology, protoplasm and animal tissues.

#### EQUIPMENT.

The Department is supplied with microscopes of the finest make, a microtome, staining reagents and mounting media for practical work. A large cabinet of mounted specimens is also at the disposal of the students for study.

### Department of Physiology

#### GENERAL PHYSIOLOGY.

W. S. NICHOLL, D. O., Professor.

The study of Histology and Biology prepares the student for Physiology. It teaches him the microscopic structure of each and every tissue of the body and the phe-

nomena of cell life. With this as a basis he is ready for Physiology, which is the study of the normal functions of the different organs of the body.

A thorough knowledge of the normal functions of all the tissues and organs of the body is absolutely essential to every Osteopath in the diagnosis and treatment of disease. This course is taught strictly from an Osteopathic standpoint and in such a form that the student may directly apply in practice the knowledge supplied in it. It is conducted by didactic lectures illustrated by the stereopticon, and by laboratory work for the purpose of demonstration and research.

The course of lectures includes the Physiology of the following:

- (a) Chemical composition of the body.
- (b) Blood, heart and circulatory system.
- (c) Respiration.
- (d) Process of digestion complete, including food values and absorption.
- (e) Excretions, including the urinary apparatus and skin.
- (f) Secretion, including the secretory and ductless glands.
- (g) General metabolism.
- (h) Special senses.
- (i) Organs of reproduction.

#### PHYSIOLOGY OF THE NERVOUS SYSTEM.

D. S. B. PENNOCK, D. O., M. D., Professor.

In this course the cerebro-spinal and sympathetic nervous systems are thoroughly studied, showing their anatomical and physiological inter-relationships, and making possible satisfactory explanation of many physiological and pathological phenomena.

## Department of Chemistry

RAYMOND W. BAILEY, D. O., Professor.  
E. H. FRITSCHE, D. O., Associate Professor.  
CHARLES L. HOOPES, D. O., Assistant.

### 1. General Chemistry.

The science is taught from a text-book, supplemented by lectures and experiments. The fundamental chemical laws, bases, acids, salts; common elements, compounds and symbols; the qualitative analysis of general and toxicological compounds; orderly methods of study and experimentation are among the topics considered. A course in Physics precedes this subject.

### 2. Organic Chemistry.

Lectures and laboratory work. The principles of the science are developed, and as a fitting preparation for Physiological Chemistry leading groups of organic matter are studied, namely; paraffins, alcohols, acids, ethers, amins; ethylene and benzene series; alkaloids, fermentation, carbohydrates, fats, etc.

### 3. Physiological Chemistry.

The work consists of discussion and experimentation covering the carbohydrates, fats, proteids; salivary, gastric, pancreatic and intestinal digestion, absorption, assimilation and elimination; the nature of food stuffs—natural and artificial; condiments; chemistry of the blood, lymph, respiration, muscle, nerve, together with microscopy of stomach contents.

### 4. Urinalysis.

As the appearances of the urine are as valuable in indicating health as in disease, normal and pathological samples are exhaustively studied under two heads:

(a) Chemical.—By each student with his own apparatus and lecture notes. Results are tabulated, clinically interpreted and compared.

(b) Microscopical.—Identification of organized and unorganized deposit with sketching of same, clinical significance; the disease is diagnosed.

In addition, the following are considered:

(c) Antiseptics and disinfectants essential in general practice.

(d) Chemical tests of milk and water.

These subjects are of great interest to the physician and are given thorough consideration. This is the only Osteopathic College which gives such a course.

## 5. Toxicology.

Emergencies in this line will arise in the practice of every physician. A pointed discussion of the principal organic and mineral poisons, ptomaines and leucomains, their antidotes and clinical tests is conducted.

The Chemical Department is fitted up with working desks, amply supplied with apparatus, pure water and gas. Individual laboratory manipulation and investigation are insisted upon and such neatness, order and accuracy as will materially aid the Osteopathic physician in his future studies and practice. The subjects are presented as fully as possible from the Osteopathic point of view. A deposit to cover breakage or loss is required.

## Department of Principles and Therapeutics of Osteopathy

J. IVAN DUFUR, D. O., Professor.

### Principles:

In this course the principles of Osteopathy are discussed and reasoned upon from the facts of anatomy, physiology, histology and pathology. As it is the purpose of the course to know the exact procedure of nature in health as well as in disease, the fullest possible attention is given to the laws of the operation of Nature in the human body in action and reaction, in normality and abnormality.

With this as a basis, the course goes on to consider the relation of Osteopathy to health and disease; the lectures go to show the relation of external manipulation to internal conditions; the difference between Osteopathy and other mechanical means for the treatment of disease; the difference between Osteopathic, medical and other methods of diagnosis; the effect of Osteopathic treatment upon the nerve, plexuses and blood tissues, and lesions of various kinds; and to impress the fact that the practice of Osteopathy has a legitimate theory and a true philosophy.

#### Therapeutics:

The work of Therapeutics starts in the second year with a course of lectures in the Diagnosis and Treatment of conditions of the spine in disease. The course extends through the whole year, three hours per week.

In the third year the work in this branch consists of a series of lectures on Symptomatology and Osteopathic Therapeutics.

In the fourth year the work in this branch is continued so as to bring the lectures of the second year and third year into relation as actual Osteopathic practice.

## Diagnosis and Technique

CHAS. J. MUTTART, D. O., Professor.

Instruction in general physical diagnosis is given one hour each week during the third and fourth years. The lectures cover diagnosis of the diseases of the thorax and abdomen and are given practical application by actual diagnosis of cases before the class.

In this course, also, the strictly "Osteopathic Lesion" is discussed and demonstrated. Lesions of all articulations are considered, but particular attention is paid to vertebral and rib lesions. Each joint from the occiput to the coccyx, including sacro-illiac is considered separately. First, the normal structure and function is demonstrated upon a detached spinal column, so constructed that all movements of the joint may be produced; next each indi-

vidual lesion is discussed, as to its definition, general description, etiology and diagnosis, and the best methods of correction. Each student is required to diagnose and treat lesions in clinical patients before the class and the physician in charge, until he becomes expert.

This course with the accompanying one in practical application in the Hospital Clinic affords the student an opportunity to attain skill in diagnosis and technique.

The course extends over two years; it is taught from text-book and lectures, and by demonstrations on models and living subjects.

As the "Practice of Osteopathy" presupposes a knowledge of the mechanical principles employed in the correcting and readjusting of any irregularities of the ligamentous, muscular and bony structures of the body, the technique and such general principles as are used are fully elaborated and demonstrated before the class from the skeletons and subjects.

Throughout, attention is persistently directed to the fact that Osteopathic treatment does not consist of a system of movements, and that in practice the ingenuity and individuality of the practitioner must originate and apply the particular principle necessary for the correction of the disturbance he is treating.

## Department of Preventive Medicine

LILLIAN L. BENTLEY, D. O., Professor.

### 1. Personal Hygiene.

Lectures on personal hygiene are given to first-year students one hour a week during the first semester. Special consideration is given to the correct use of the body, its effect on mental, normal and physical powers and to the proper care of the eye, ear, nose, throat, voice and skin, as well as to bathing and clothing; the beneficial effects of breathing exercise, rest, sleep, sunshine, fresh air and ventilation are shown.

### 2. Dietetics, Public Hygiene.

This course is presented to the third-year students,

one hour a week throughout the year. Some of the subjects are: Water supply, contamination, examination, purification; atmosphere; ventilation; food, adulteration, dietaries; drainage and sewerage; disposal of garbage and night soil; sanitation and disinfection of dwellings and other buildings; habitat in relation to disease; Osteopathic prophylaxis.

(a) The air is contaminated by respiration, combustion, fermentation, putrefaction and the industrial processes involving the liberation of noxious gases, etc., etc.

(b) Water may carry the germs of disease and death.

(c) Food adulteration has become a pernicious and dangerous practice in this country.

Over-eating; eating of improper food.

## Department of Nervous and Mental Diseases

CHAS. J. MUTTART, D. O., Professor.

If there is one structure that may be considered of paramount importance to the Osteopathist, it is the nervous system; for while health depends largely upon a natural flow of blood, the flow is controlled by the vaso-motor nerves. So it is indispensable that the physician make a special study of the two systems of nerves—cranio-spinal and sympathetic—and know definitely what conditions may affect them and render them pathological.

Lectures on the special diseases of the brain and nervous system are given during the last semester of the year. These diseases are discussed, the lecturer keeping in view the anatomical segments and their relation to nerve centers and to the origin of nerves, and the influence of the segments upon the brain and spinal cord and upon the nerve trunk generally. Thus the anatomical derangement productive of these diseases is brought before the student by demonstration. The close relation between the mind and the cerebro-spinal and sympathetic system, and the way in which intense mental disturbance may affect vital bodily processes, is clearly pointed out.

## Department of Pathology and Bacteriology

ARTHUR M. FLACK, D. O., Professor.

### 1. General Pathology.

The study of Pathology is considered from the didactic and laboratory standpoints. The didactic work is supplemented by an exhaustive study of diseased tissues under the microscope, in this way simplifying the many details of text-book descriptions. The student has ample opportunity to view specimens of tissue illustrating the various diseases he is liable to meet with in his future practice.

### 2. Osteopathic Pathology.

Osteopathic Pathology differs in its interpretation and application from Pathology as usually taught in medical schools. Morbid Anatomy is studied with special reference to vertebral and rib subluxations and their effect upon visceral life through nerve and circulatory connections. Morbid Physiology is studied with reference to the disordered functions resulting from defective structure or excessive functional demands.

## Bacteriology

A didactic course is given in general and special bacteriology. This is followed by a laboratory course wherein students are taught how to grow bacteria on culture media; also how to stain and examine with the microscope, and to diagnose the principal organisms.

## Clinical Microscopy

The beginnings of disease are microscopic. Clinical microscopy is one of the greatest aids of the modern physician. Instruction therein is given under the following heads:

1. Urinalysis.
2. Hematology.
3. Bacteriology.
4. Examination of Stomach Contents.
5. Examination of Excretions from the Bowels.

## Department of Gynecology

EVA M. BLAKE, D. O., M. D., Professor.

CECELIA G. CURRAN, D. O., Assistant.

This course is presented by lectures and demonstrations on models, on the dissected pelvis, and on the living subject.

A thorough knowledge of the anatomy of the pelvis and pelvic organs, and their anatomical and physiological connection with the spinal cord and the various immediate and remote organs is essential as the foundation for this work.

Since Osteopathy permanently cures a very large percentage of diseases of women where gynecologists invariably use the knife, this subject is taught exhaustively, and is extended through three semesters, that the student may have exhaustive clinical experience.

## Department of Embryology and Obstetrics

D. S. B. PENNOCK, D. O., M. D., Professor.

The efficacy of Osteopathic treatment has been demonstrated in this department and has won brilliant success over all other methods of practice.

Osteopathy is woman's friend in the hour of confinement, controlling and lessening the length of labor. It facilitates natural and easy delivery; hastens convalescence and the return of the pelvic organs to normal.

This course covers the full third and fourth years as follows:

1. Didactic Lectures.
2. Laboratory work on imported Buden-Pinard Manikin, demonstrating *use of forceps, various presentations and methods of delivery.*
3. Clinical hospital bed-side work. Each student must attend at least two cases (confinement and after-treatment) at the maternity hospital before graduation.

Proper Osteopathic treatment during gestation minimizes many of the difficulties during that time; it facilitates intrauterine nourishment to the child, and frees child-bearing of much of its terror.

### **Department of Ophthalmology**

A. F. WATCH, Ph. D., (Sweden), Professor.

Didactic lectures and clinical demonstrations to the fourth year students, on diseases of the eye, with instruction in the use of the ophthalmoscope, are comprised in this course.

Many diseases belonging to this group readily yield to Osteopathic treatment, and it is the aim of the course to acquaint the student with these and to enable him to diagnose those requiring surgical treatment.

### **Department of Surgery**

D. S. BROWN PENNOCK, D. O., M. D., Professor.

WILLIAM S. NICHOLL, D. O., Associate Professor.

The work in this department is divided into three courses and is pursued through three semesters. The aim of the course is to make the student thoroughly familiar with all up-to-date methods.

#### **1. Minor Surgery.**

This course is given in the second semester of the Junior year and first semester of Senior year, and consists of lectures, demonstrations and practice in the technique of skillfully applying the various dressings and bandages required in surgical operations. The student is thoroughly drilled in all methods of minor surgery—asepsis, antisepsis, preparation of solutions, methods of disinfection and sterilization, preparation of antiseptics, etc.

#### **2. Meehanical Surgery.**

Under this head the reduction and treatment of fractures, sprains, dislocations, deformities and abnormalities

are considered and the efficiency of Osteopathic methods demonstrated. Post-operative and post-anesthetic Osteopathic procedures are considered.

### 3. Operative Surgery.

This course is given during the Senior year and includes lectures and quizzes upon the principles and practice of surgery, and demonstration upon the cadaver in the laboratory and upon living subjects in the Philadelphia Osteopathic Dispensary.

Osteopathy has rendered operations in a great many cases of disease unnecessary, and the student is especially instructed how to diagnose a surgical case.

The subjects of anesthesia and anesthetics are given full consideration, and upon the completion of the course the student will be fully qualified to handle any minor or major surgical case.

## Skin and Venereal Diseases

WILLIAM S. NICHOLL, D. O., Professor.

Advanced students are given opportunity of observing affections of the skin—many of which are amenable to Osteopathic treatment. As an acquaintance with the manifestation of diseases is best afforded by a frequent inspection of patients, free use is made of the material furnished by the Dispensary service and clinics.

## Department of Medical Jurisprudence

RAYMOND W. BAILEY, D. O., Professor.

A course in Medical Jurisprudence is given to the Seniors for the purpose of acquainting them with those elements and implications of the law that in a peculiar manner affect the physician's professional conduct. The course deals with the emergencies arising in the every-day life of the physician.

## Department of Clinics

J. IVAN DUFUR, D. O., Chief of Clinics.

Instruction in clinics is divided into two departments —Clinical Osteopathy and Clinical Practice.

### 1. Clinical Osteopathy.

Instruction covers a period of three semesters, beginning with the third year and continuing until the close of the Senior year.

The student is required, under the supervision of the Professor, to examine the patient, note all irregularities and make a complete diagnosis. The diagnosis is then verified by the instructor, who lectures upon the effect of the conditions discovered, and upon the disease under consideration, giving the clinical history of such conditions, their course and method of treatment.

### 2. Clinical Practice.

The second course consists wholly of practical clinical work by the Senior students, and is pursued through both semesters of the Senior year. The patients who have been before the classes in Clinical Osteopathy are assigned to the students and are treated by them, under the immediate supervision of one of the Clinical staff. Careful records of the progress of the cases are kept by the students, and are reviewed from time to time by the Chief of the Department; at the same time the student is instructed in the further treatment of the case.

The proper presentation of this course requires not only a large staff of competent instructors, but plentiful clinical material such as is offered by a city of Philadelphia's size. All treatments are given in the Dispensary Department of the Osteopathic Hospital of Philadelphia, and in no case, except when special permission has been had in writing from the Chief of the Clinics, will students be permitted to give treatment outside of the Hospital. All students (other than Post Graduates) are expressly prohibited from treating for a consideration—money or

otherwise—and a violation of this regulation will result in immediate suspension.

Senior students are assigned to certain physicians at the Dispensary under whom they observe and receive practical instruction in the treatment of patients. Each month the student is under the instruction of a different physician in order to give him a wide experience and enable him to study the different methods employed by the different physicians.

The Senior students are required to attend the clinics held at the Dispensary, because the variety of diseases examined and treated there is seen only in the Dispensaries of cities of the size of Philadelphia. This Dispensary experience is invaluable to the student, making him proficient in diagnosis and skillful in technique.

### Infirmary Staff Act as Consultants

Osteopaths through the United States, quick to realize the benefits of consultation with the specialists who make up the Infirmary Staff of the Philadelphia College, are making active use of what we call the Infirmary consulting privilege. This privilege allows any practicing Osteopath to bring or send a difficult case to the Infirmary for examination in any Department he may specify, with such analyses as are found necessary. The laboratories are equipped for chemical examination of urine, blood, sputum, stomach contents, etc.; and when a complete clinical investigation of a case has been made the clinical record is forwarded to the practitioner concerned, with the examiner's comments as to diagnosis, prognosis and treatment.

A minimum fee of five dollars (\$5.00) will be charged for this examination, necessary analysis included; the services of the consultants are donated. All fees from this source are applied to extending the usefulness of the Dispensary Department.

## Text-Books

(Preferred Text-Books are *Italicized*.)

### ANATOMY:

Descriptive.—*Gray*, Piersol, Morris, Gerrish, Quain.

Dissection.—*Cunningham*, Heath.

Regional.—*Gray*, Cunningham, Hughs and Keith, Sabata and McMurick.

Applied.—*Clark*, Craig.

**BACTERIOLOGY.**—*Abbott*, McFarland, Jordan, Todd, Stitt, Hiss and Zinsser, Williams.

**BIOLOGY.**—*Parker*.

### CHEMISTRY:

General, *Hill*, Remsen, Bartlett.

Physiologic.—*Hawke*, Halliburton.

Sanitary.—*Mason*, Holland, Fox.

Urinalysis.—*Hawke*, Purdy, Tyson.

**DIETETICS.**—*Thompson*, Wiley, Burnett, Davis.

**EMBRYOLOGY.**—*Heister*, Piersol, Heisler.

**GYNECOLOGY.**—*Woodhall*, Clark, Penrose, Hirst.

**HISTOLOGY.**—*Ferguson*, Hill, Stohr, Huber.

**HYGIENE.**—*Harrington*, Pyle, McFarland.

**MENTAL DISEASES.**—*Berkley*, Church and Peterson, Hudson.

**NERVOUS DISEASES.**—*Gower*, Dana, Hunt.

**OBSTETRICS.**—*King*, Jewett, American Text.

**OPHTHALMOLOGY.**—*Poscay and Wright*, Grable, De Schweinitz,

**OSTEOPATHY:**

Clinical.—*Dufur*.

History.—*Booth*, Still, Encyclopedia Americana.

Pathology.—*McConnell*.

Philosophy.—*Still*, Littlejohn.

Principles.—*Dufur*, Hulett, Hazard, Tasker, Riggs.

Practice.—*Willard*, McConnell, Osler.

Technique.—*Muttart*, Hazard, Still.

Diagnosis.—*Muttart*.

**PATHOLOGY.**—*Stengel*, Coplin, McConnell, McFarland, Simon.

**PEDIATRICS.**—*Holt*, American Text, Saunders' Essentials.

**PHYSIOLOGY.**—*Kirke*, Landois, Brubaker, Howell, Quain.

**PHYSIOLOGY OF NERVOUS SYSTEM.**—*Pennock*.

**PHYSICAL DIAGNOSIS.**—*Anders*, Cabot, Butler, Corwin.

**SKIN AND VENEREAL DISEASES.**—*Sehamburg*, Stelwagon.

**SYMPTOMATOLOGY.**—Hazard, Anders, Tyson.

**SURGERY.**—*Wharton*, Young, DaCosta, Senn, Forte, Stewart.

**TOXICOLOGY AND MEDICAL JURISPRUDENCE.**—*Reese*, Chapman, Blythe, American Text.

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10 Simonns, Margie D., 259 Graham Ave., Paterson, N. J.

10 Sullivan, Thomas V., Wheeling, W. Va.

- Tate, Edwin W., 800 Broad St., Newark, N. J.
- Tebeau, Albert Clayton, Paul-Gale-Greewood Bldg., Norfolk, Va.
- Thayer, Edna (Mrs. George R. Freas), Williamsport, Pa.  
(645 Center St.)
- Thomas, Ada I., 332 Miner St., West Chester, Pa.
- Thurman, Stella Cox, 232 Jackson St., Americus, Ga.
- Thurman, E. L., 232 Jackson St., Americus, Ga.

Wood, Mrs. Emma G., 217 Woolworth Bldg., Lancaster, Pa.

## Undergraduates

Acornley, A. H.  
Alexander, C. R.  
Anderson, Miss May R.  
Beale, Miss E. F.  
Bailey, John H.  
Baer, Fred J.  
Bartlett, E. M.  
Barrett, Arthur S.  
Balbirnie, C. D. B.  
Burke, Raymond J.  
Bretzfelder, Karl  
Butcher, Miss Lawrence  
Brearley, P. H.  
Carter, Hedley V.  
Cleveland, Edward W.  
Costello, Miss Blanche V.  
Conger, W. M.  
Crandall, G. E.  
Deeter, Miss R. A.  
Drennan, Miss Anna M.  
Drew, E. G.  
Drew, I. W.  
Dye, W. W.  
Eldon, James B.  
Eichman, Miss B. M.  
Finuerty, Frank A.  
Farson, Miss Annie  
Fleming, Mrs. E. S. C.  
Furey, Charles A.  
Furey, William J.  
Gercke, George A.  
Gehr, Mrs. Cora B.  
Gomel, Miss Maude  
Hanson, J. Leo  
Howell, Charles H.  
Haigis, Edward  
Harrison, Charles P.  
Heaton, James M.  
Heatwole, Webster S.  
Hart, William H., Jr.  
Henry, Miss M. E.  
Hough, Miss Jeanne S.  
Holliday, Philip  
Houck, H. M.  
Ingersoll, Franklin B.  
Kelley, Lawrence J.  
Kraus, Eugene R.  
Leopold, Mrs. M. S. D.  
Lippincott, Miss Lydia E.  
Lynch, Miss C. G.  
MacEwen, Miss Margaret  
Masterson, William H.  
Maxwell, Miss Bertha M.  
Maxwell, Harry T.  
McClenny, D. C.  
Marx, Melville  
Miller, Frank  
Munson, Mrs. Elinor  
Nelson, Frank C.  
O'Brien, Frank C.  
Potter, Miss F. M.  
Powell, Mrs. M. S.  
Powell, Henry R.  
Penrose, Mrs. J. M.  
Perry, Mrs. F.  
Reinhardt, Miss M. L.  
Reynolds, Uel  
Riley, Mrs. A. V. T.  
Raymond, Herbert B.  
Rupp, Arthur  
Stearne, J.  
Shenton, Mrs. Lillian B.  
Spencer, Miss Margaret  
Slaugh, J. Harry  
Stem, Harold J.  
Stevens, Mrs. Paula A.  
Taylor, Miss Prueilla  
Tinges, George H.  
Thornley, Harry E.  
Taylor, Roy F.  
Van Ronk, Chas. J.  
Wiggins, W. Harold  
Wood, Mrs. E. G.  
Yerg, Linley H.

## Calendar

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1911

September 26, Tuesday—Registration Day.

September 27, Wednesday—Formal Opening of Sessions.

October 11, Wednesday—Examination for Advanced Standing.

November 30, Thursday—Thanksgiving Recess.

December 3, Monday—Classes Resumed.

December 22, Friday—Christmas Recess Begins.

1912

January 2, Tuesday—Classes Resumed.

January 22, Monday—Opening of Second Semester.

February 22, Thursday—Washington's Birthday.

April 5, Friday—Easter Recess Begins.

April 9, Tuesday—Classes Resumed.

May 30, Thursday—Memorial Day.

June 6, Thursday—Commencement.



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